



Department of the Army
New York District Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza
New York, NY 10278-0090

Week of December 1 – December 7, 2008

The following file displays the results from the USACE-NYD real-time website for the week of Monday, December 1, through Sunday, December 7, 2008.

The even pages display the home page showing the maximum vibration measured in all of the stations for most recent event for each day:

December 1
December 2
December 3
December 4
December 5
December 6
December 7

The odd pages show the maximum vibration observed at each station along easting for each event.

Blasting has not started. We do not anticipate blasting to start until sometime in 2009. The results for this week show the ambient results measured at the two active stations: one at 350 Richmond Terrace and the other at St. Peters Church. The station locations are on each page.

The maximum vibrations are observed at 350 Richmond Terrace. The higher vibrations result from traffic during the daylight hours. All levels are all below 0.0250 in/s. This magnitude is an order of magnitude below the allowable vibrations shown by the straight lines on the graphs.

The measurements at St. Peters Church are below 0.01 in/s. St. Peters Church is one block up the hill from Richmond Terrace traffic. They fall below the x-axis on the event page.

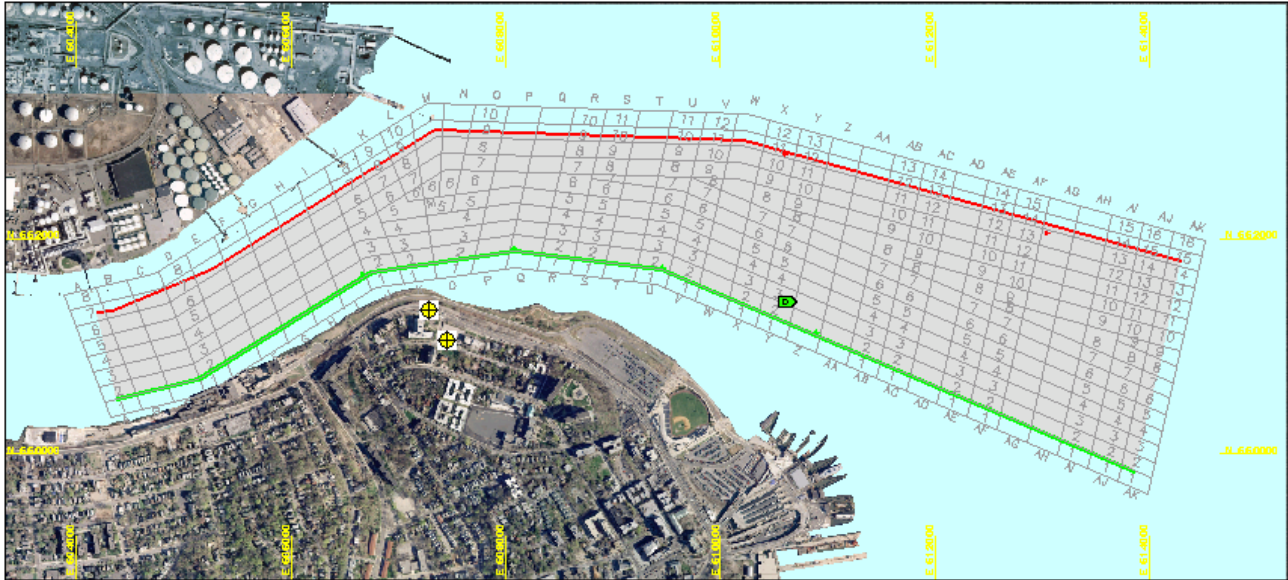
Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

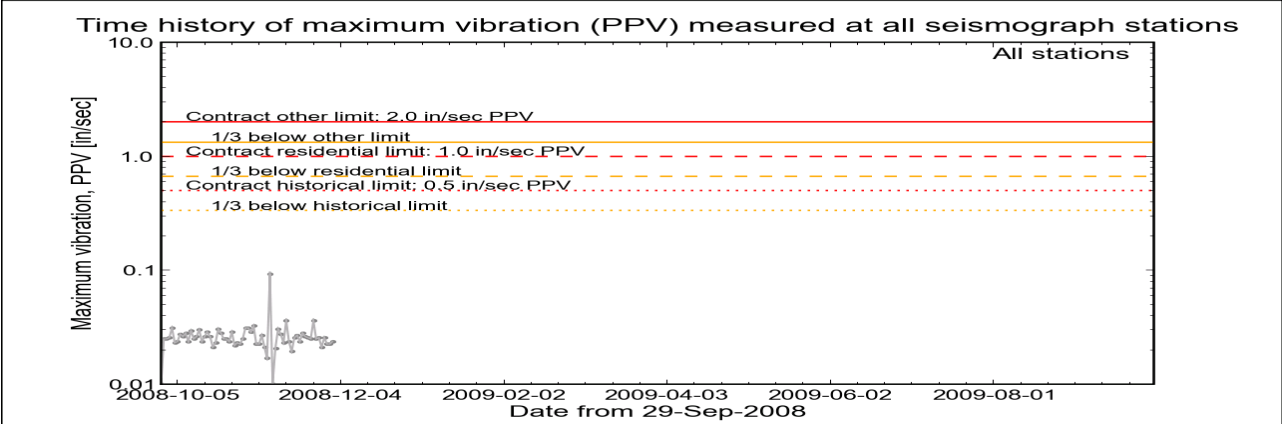
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (*The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.*)

Date and time of last reading: Mon 01-Dec-2008 17:01:34



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace
Ambient	Sun 30-Nov-2008	02:31:33	0.0225	350 Richmond Terrace
Ambient	Sat 29-Nov-2008	19:01:59	0.0225	350 Richmond Terrace
Ambient	Fri 28-Nov-2008	14:31:33	0.0256	350 Richmond Terrace
Ambient	Thu 27-Nov-2008	00:15:09	0.0212	350 Richmond Terrace
Ambient	Wed 26-Nov-2008	00:13:44	0.0256	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

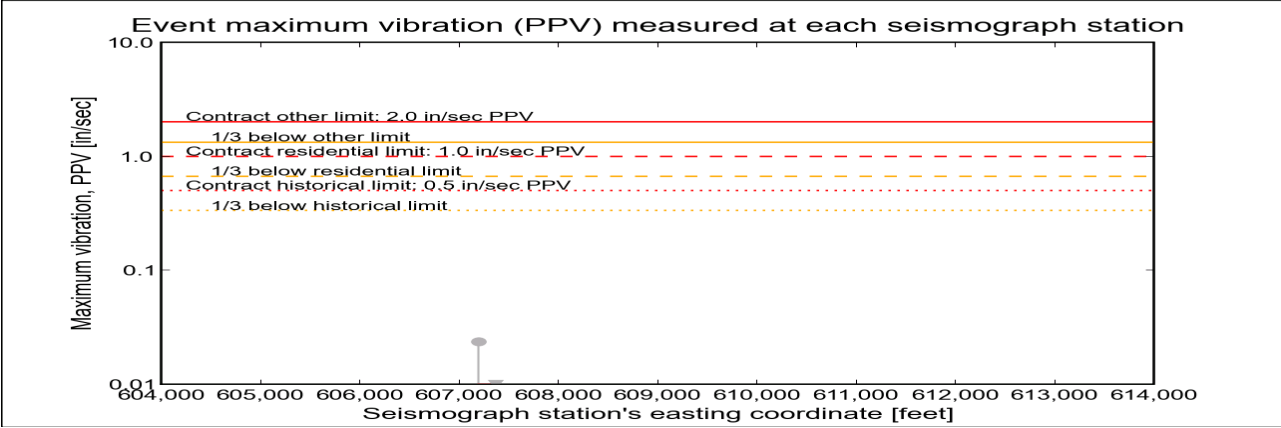
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Mon 01-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Mon 01-Dec-2008	17:01:34	0.0237	Ambient
St. Peters Church - e4s001	Mon 01-Dec-2008	14:17:02	0.00687	Ambient

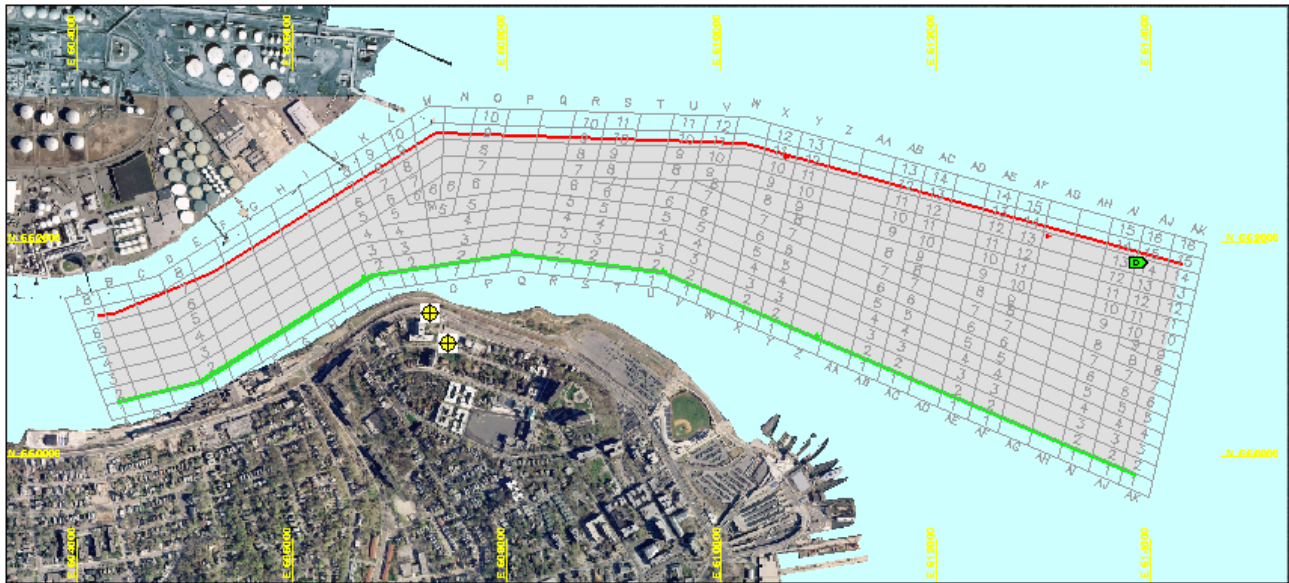
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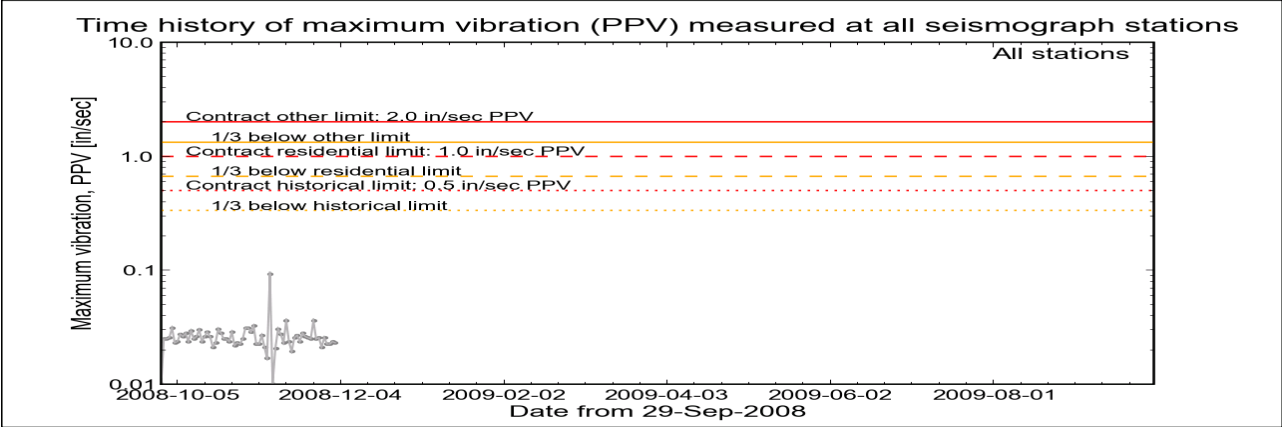
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Latest Event Summary

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Date and time of last reading: Tue 02-Dec-2008 11:46:33



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace
Ambient	Sun 30-Nov-2008	02:31:33	0.0225	350 Richmond Terrace
Ambient	Sat 29-Nov-2008	19:01:59	0.0225	350 Richmond Terrace
Ambient	Fri 28-Nov-2008	14:31:33	0.0256	350 Richmond Terrace
Ambient	Thu 27-Nov-2008	00:15:09	0.0212	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

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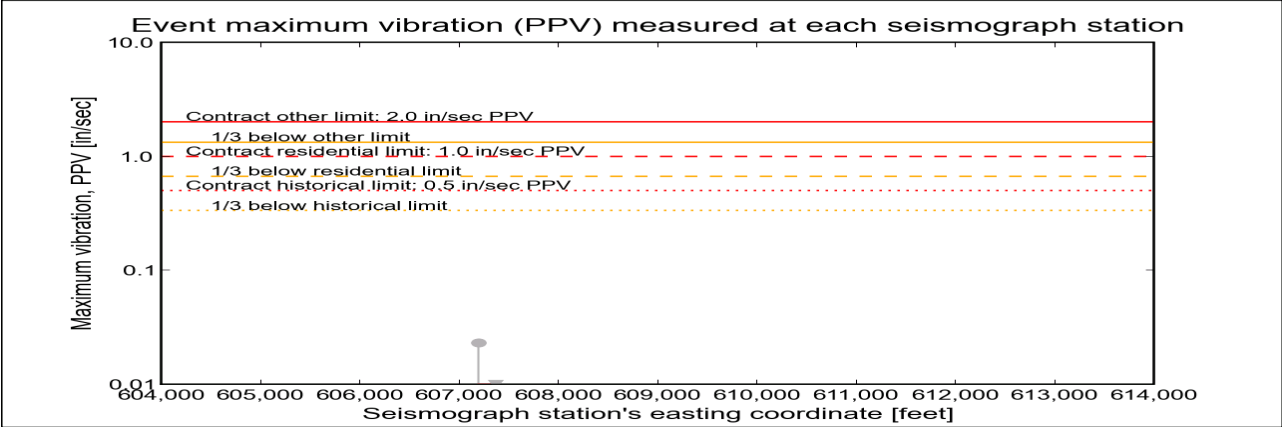
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Tue 02-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Tue 02-Dec-2008	11:46:33	0.0231	Ambient
St. Peters Church - e4s001	Tue 02-Dec-2008	01:46:33	0.00437	Ambient

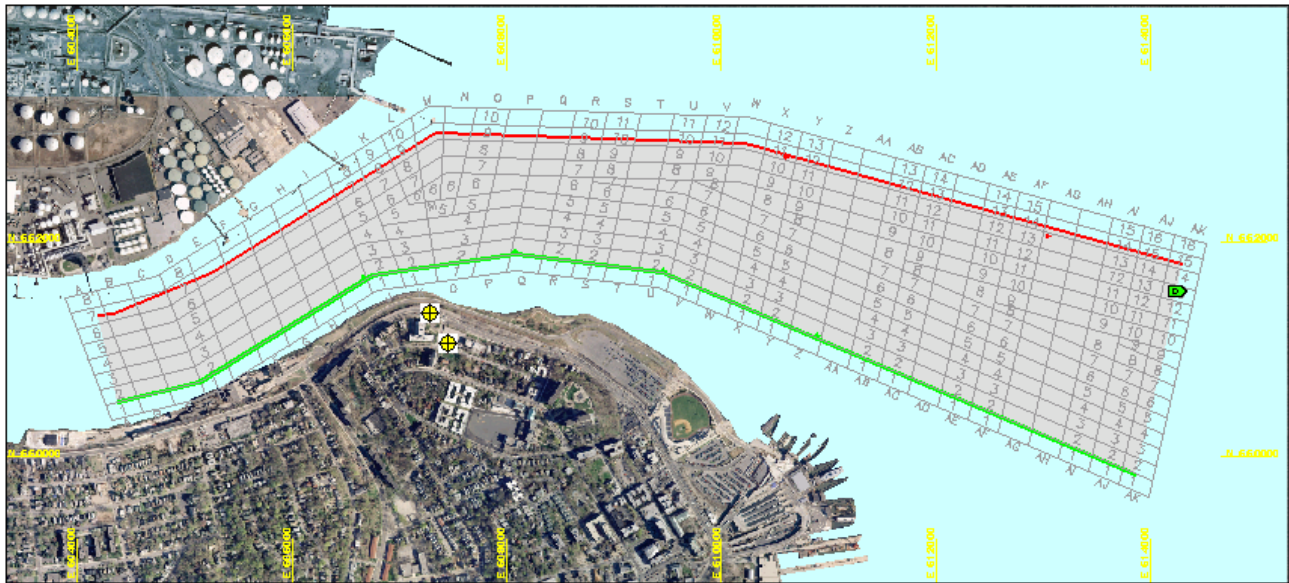
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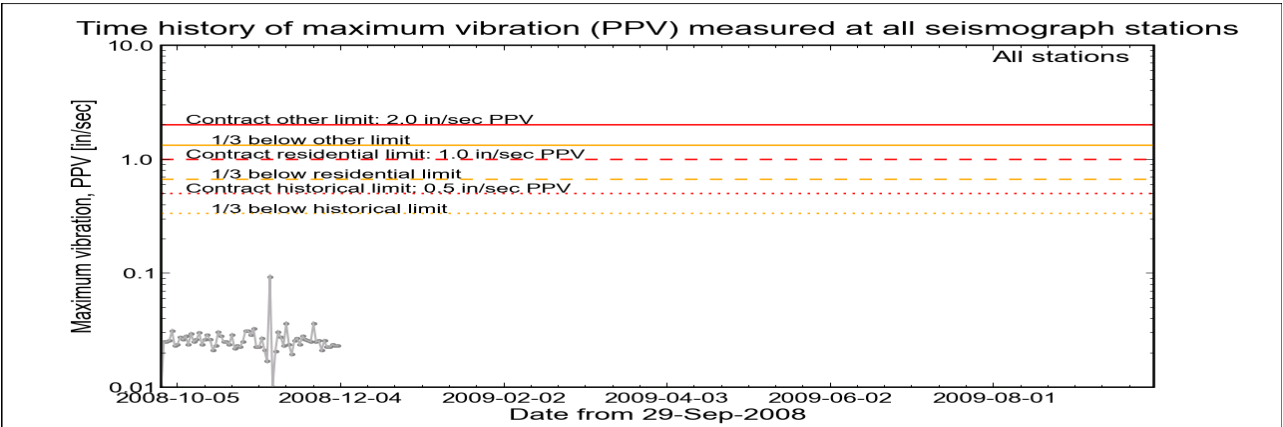
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Latest Event Summary

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Date and time of last reading: Wed 03-Dec-2008 16:18:55



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Wed 03-Dec-2008	16:18:55	0.0231	350 Richmond Terrace
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace
Ambient	Sun 30-Nov-2008	02:31:33	0.0225	350 Richmond Terrace
Ambient	Sat 29-Nov-2008	19:01:59	0.0225	350 Richmond Terrace
Ambient	Fri 28-Nov-2008	14:31:33	0.0256	350 Richmond Terrace



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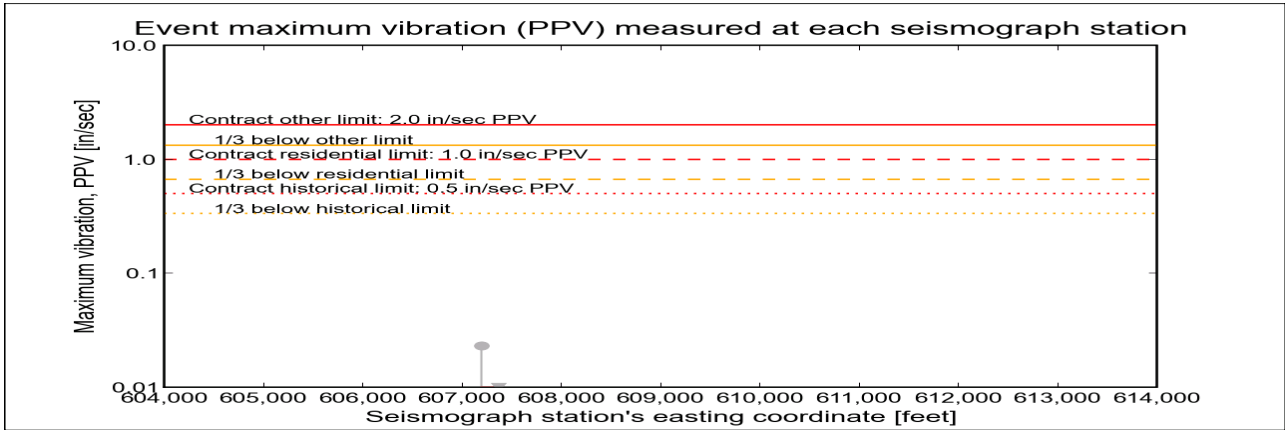
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Selected Event Summary

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Date of reading: Wed 03-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Wed 03-Dec-2008	16:18:55	0.0231	Ambient
St. Peters Church - e4s001	Wed 03-Dec-2008	11:19:20	0.005	Ambient

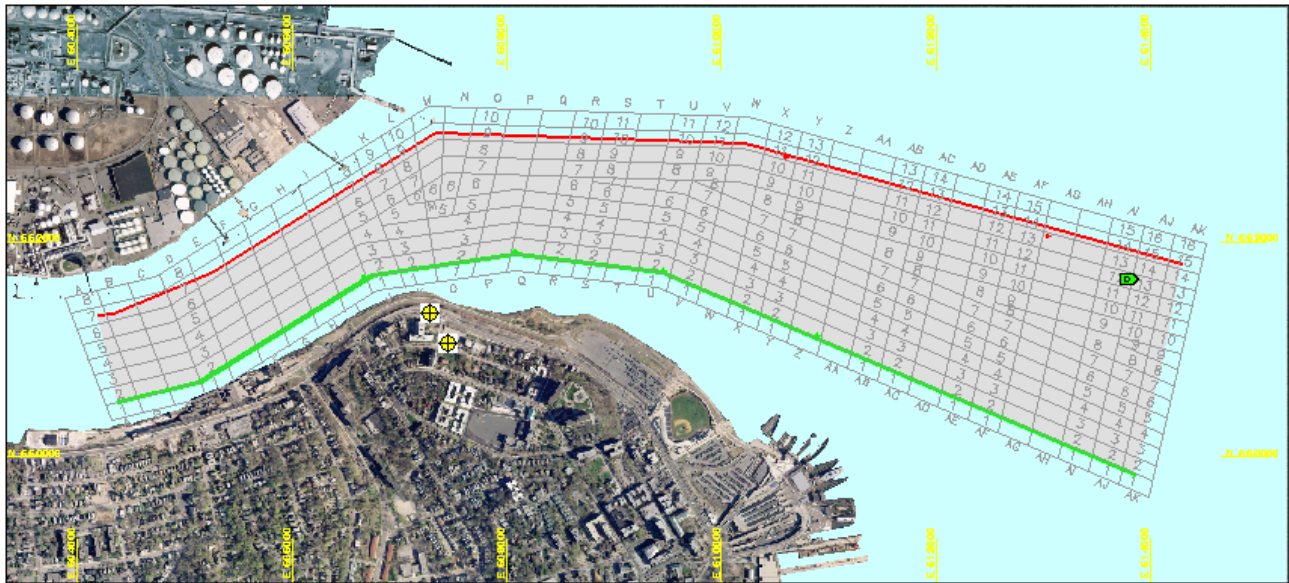
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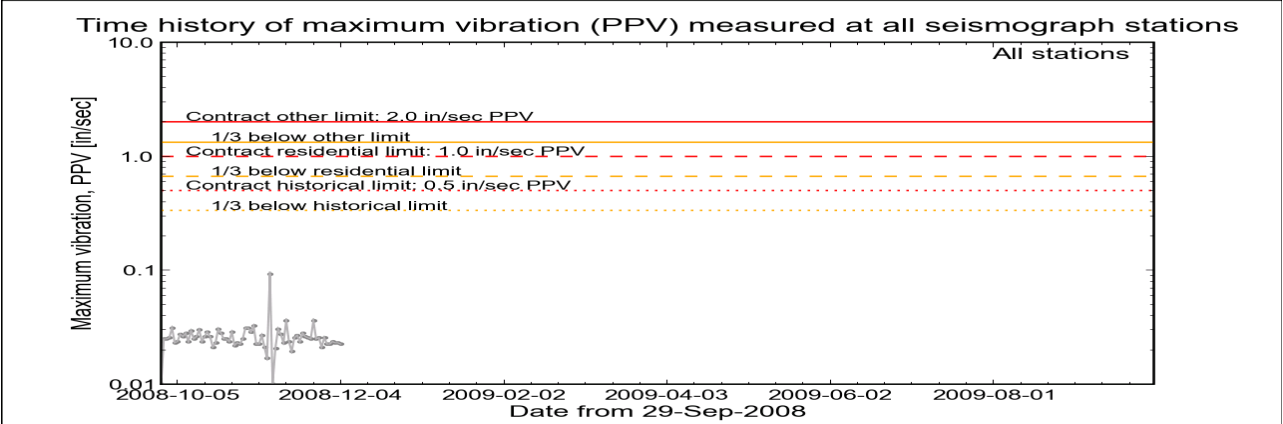
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Date and time of last reading: Thu 04-Dec-2008 14:17:50



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Thu 04-Dec-2008	14:17:50	0.0225	350 Richmond Terrace
Ambient	Wed 03-Dec-2008	16:18:55	0.0231	350 Richmond Terrace
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace
Ambient	Sun 30-Nov-2008	02:31:33	0.0225	350 Richmond Terrace
Ambient	Sat 29-Nov-2008	19:01:59	0.0225	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

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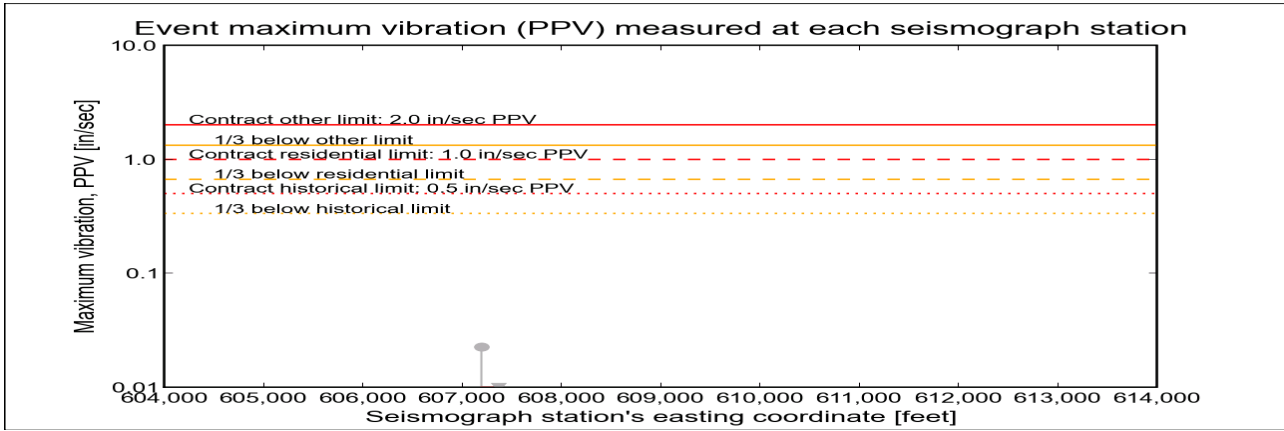
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Selected Event Summary

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Date of reading: Thu 04-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Thu 04-Dec-2008	14:17:50	0.0225	Ambient
St. Peters Church - e4s001	Thu 04-Dec-2008	00:04:20	0.0075	Ambient

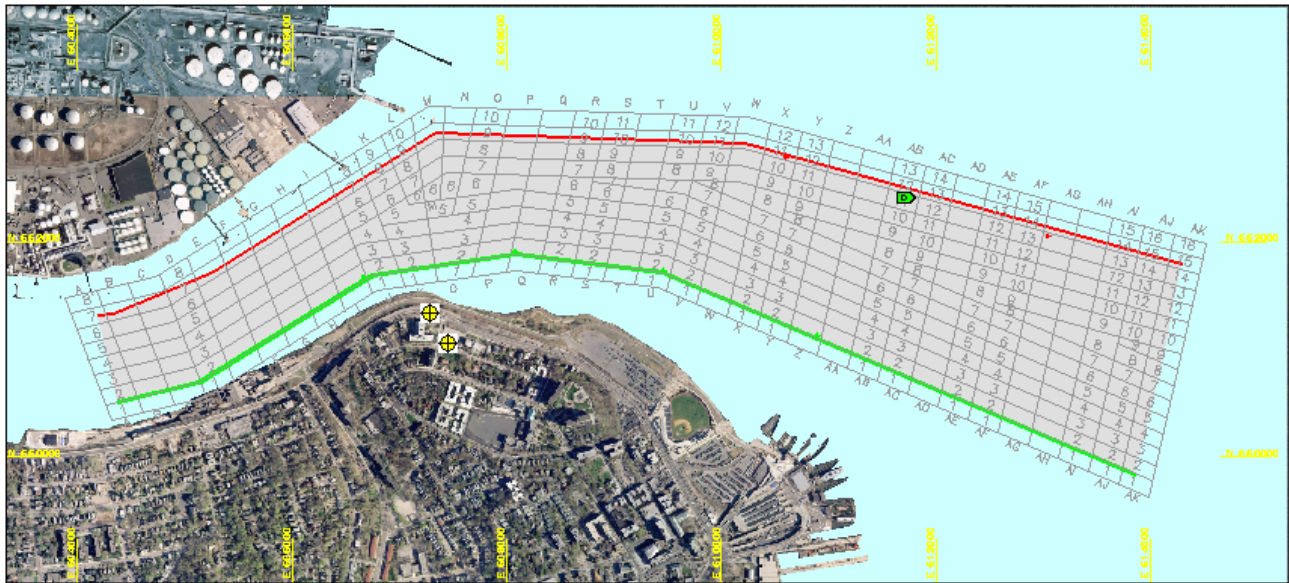
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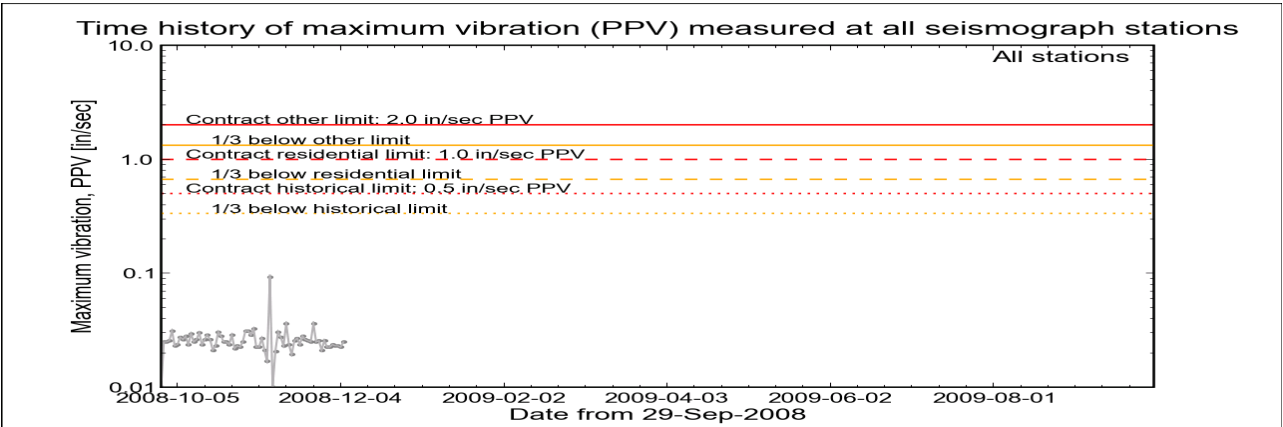
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Latest Event Summary

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Date and time of last reading: Fri 05-Dec-2008 12:33:10



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 05-Dec-2008	12:33:10	0.0250	350 Richmond Terrace
Ambient	Thu 04-Dec-2008	14:17:50	0.0225	350 Richmond Terrace
Ambient	Wed 03-Dec-2008	16:18:55	0.0231	350 Richmond Terrace
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace
Ambient	Sun 30-Nov-2008	02:31:33	0.0225	350 Richmond Terrace



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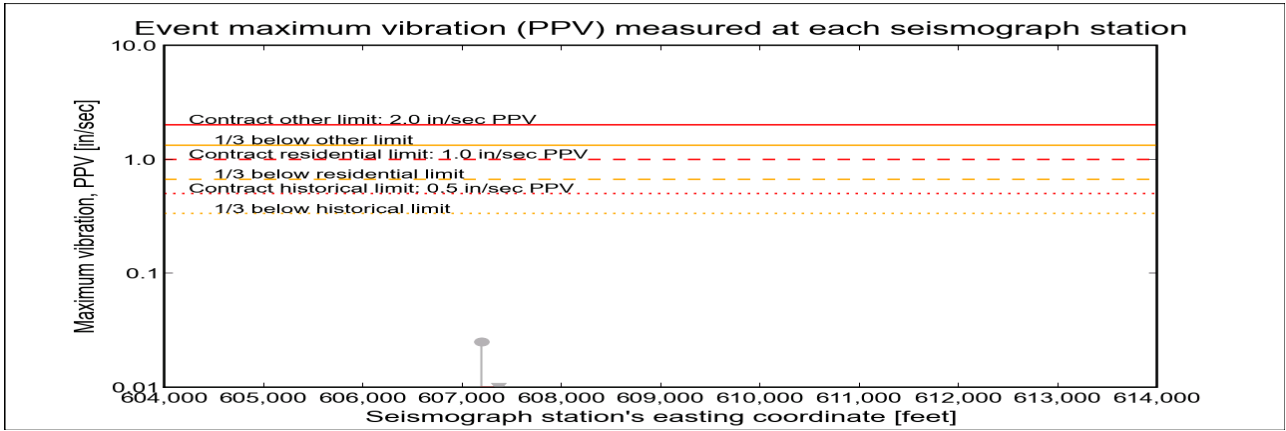
Click station for more information about the station.



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Date of reading: Fri 05-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Fri 05-Dec-2008	12:33:10	0.025	Ambient
St. Peters Church - e4s001	Fri 05-Dec-2008	23:46:34	0.00437	Ambient

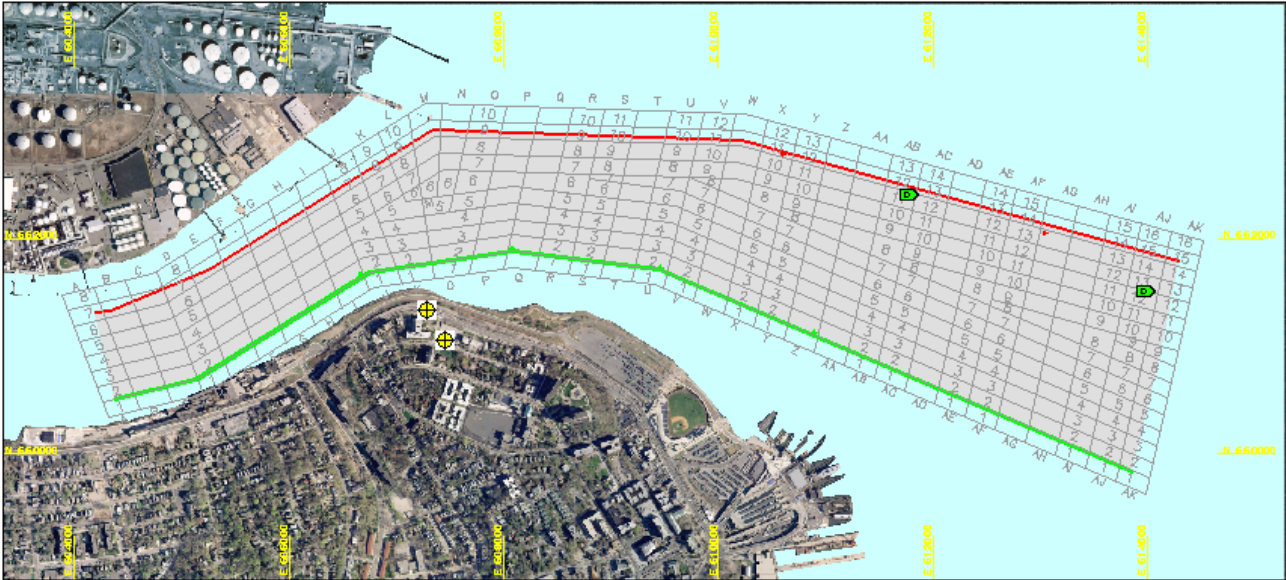
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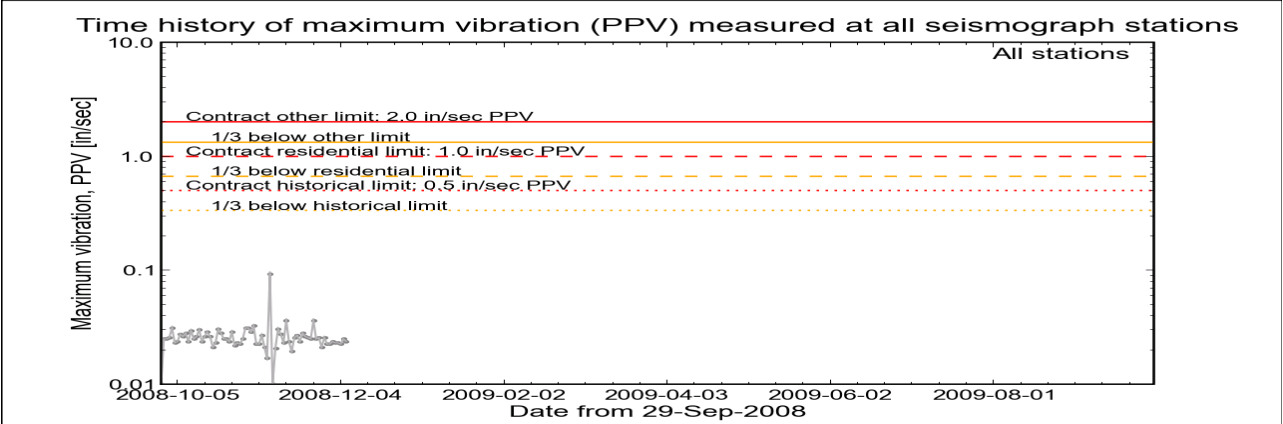
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Date and time of last reading: Sat 06-Dec-2008 01:46:33



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sat 06-Dec-2008	01:46:33	0.0237	350 Richmond Terrace
Ambient	Fri 05-Dec-2008	12:33:10	0.0250	350 Richmond Terrace
Ambient	Thu 04-Dec-2008	14:17:50	0.0225	350 Richmond Terrace
Ambient	Wed 03-Dec-2008	16:18:55	0.0231	350 Richmond Terrace
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace
Ambient	Mon 01-Dec-2008	17:01:34	0.0237	350 Richmond Terrace



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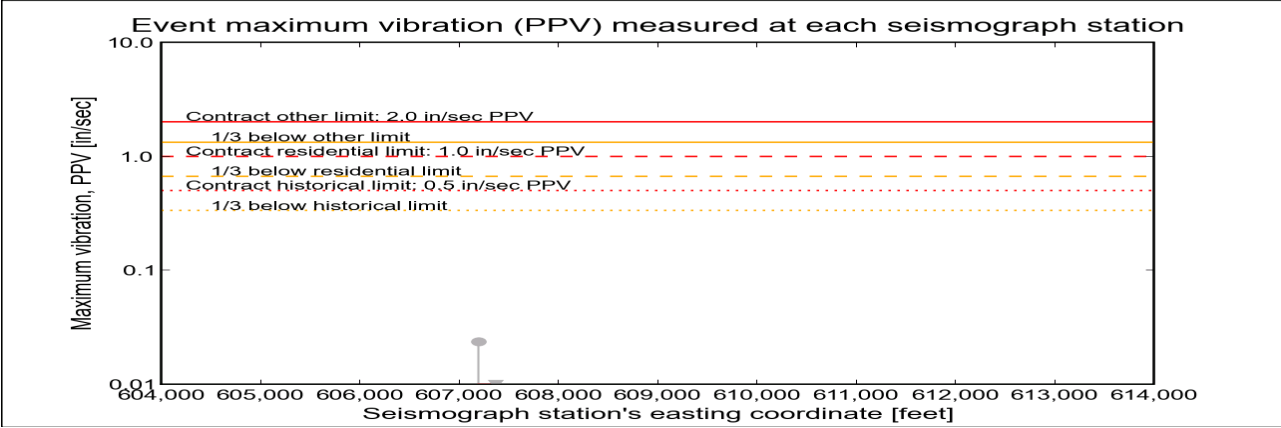
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Date of reading: Sat 06-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Sat 06-Dec-2008	01:46:33	0.0237	Ambient
St. Peters Church - e4s001	Sat 06-Dec-2008	23:46:34	0.00562	Ambient

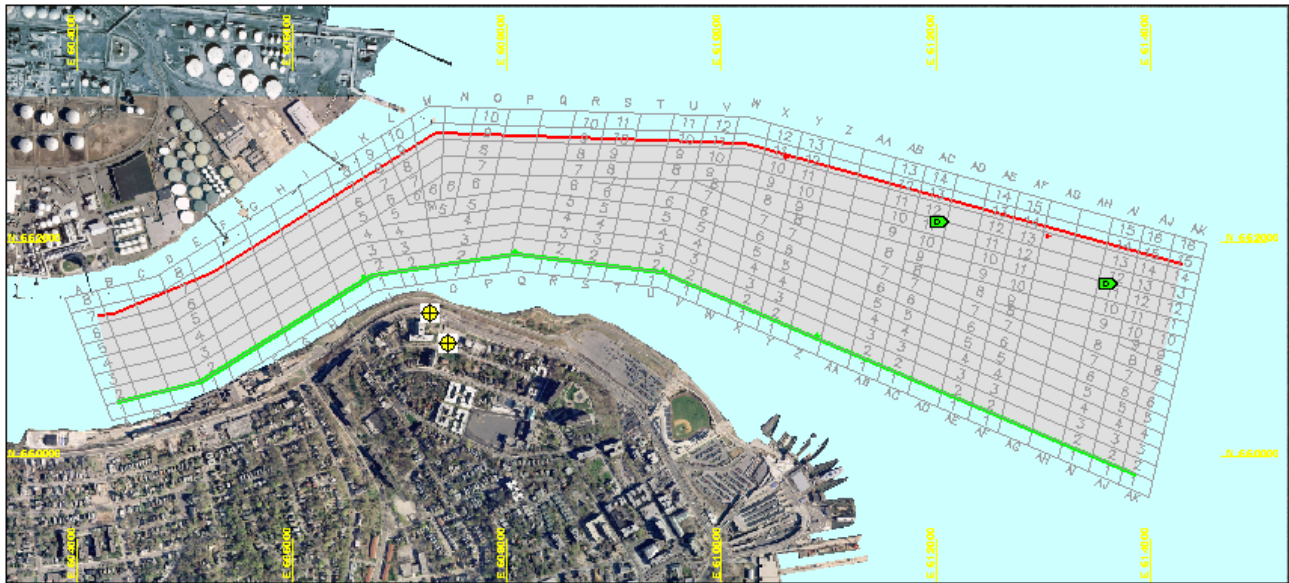
Kill Van Kull Blast Vibration Summary

This site summarizes the measured ground vibrations in St. George, Staten Island, from rock blasting in the Kill Van Kull and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract S-KVK-1 starting 29 September 2008.

This page represents the most recent observations.

The S-KVK-1 contract area is mapped below in solid gray. The navigation grid is superimposed. The dredge locations are marked by a green symbol. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

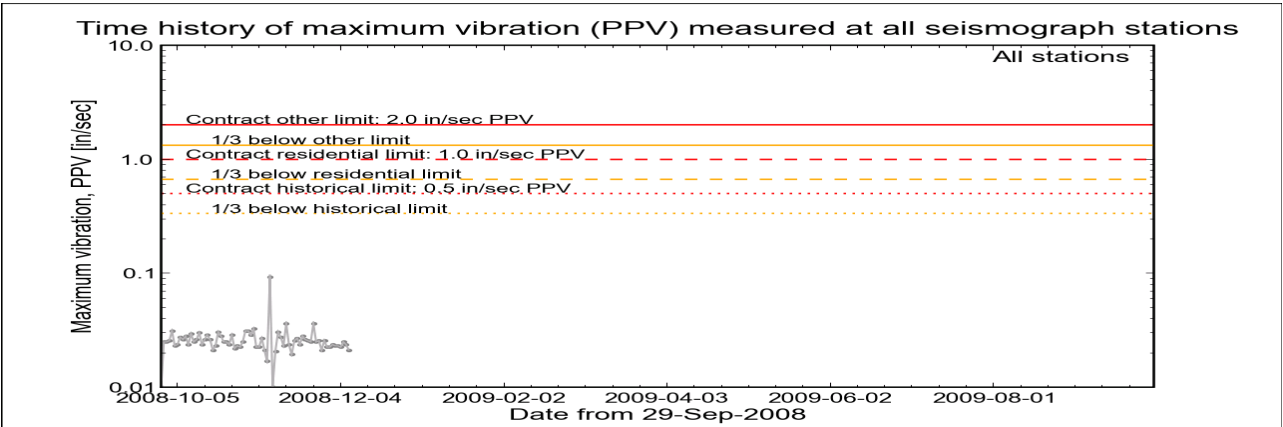
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 29 September 2008. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (*The light gray curve is ambient-vibration level. The black curve is blast-vibration level. The dark gray curve is predicted blast-vibration level.*)

Date and time of last reading: Sun 07-Dec-2008 00:17:03



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 07-Dec-2008	00:17:03	0.0212	350 Richmond Terrace
Ambient	Sat 06-Dec-2008	01:46:33	0.0237	350 Richmond Terrace
Ambient	Fri 05-Dec-2008	12:33:10	0.0250	350 Richmond Terrace
Ambient	Thu 04-Dec-2008	14:17:50	0.0225	350 Richmond Terrace
Ambient	Wed 03-Dec-2008	16:18:55	0.0231	350 Richmond Terrace
Ambient	Tue 02-Dec-2008	11:46:33	0.0231	350 Richmond Terrace



Kill Van Kull Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The S-KVK-1 contract area is mapped below in solid blue with a top-of-rock map. The dredge locations are marked by a green symbol. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*Earthworks stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

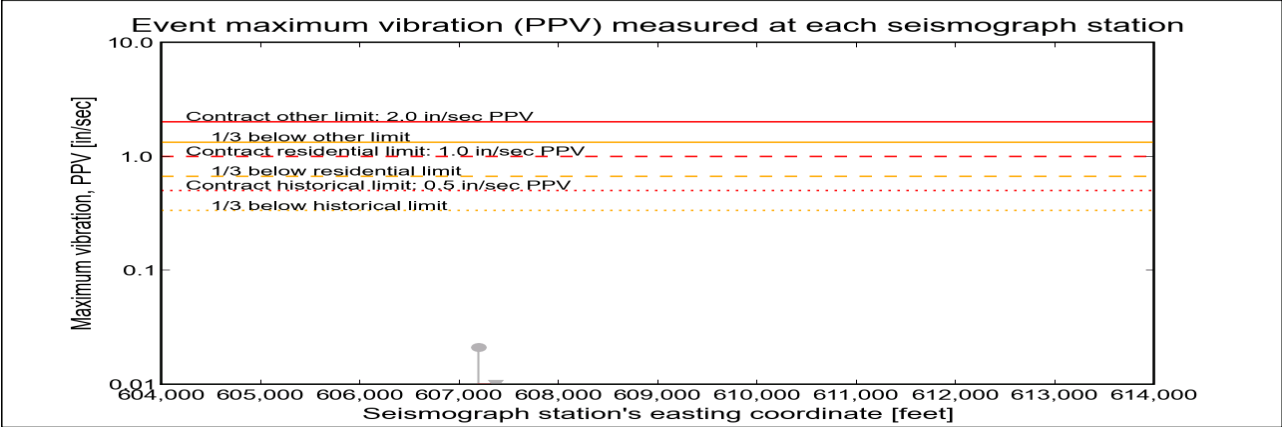
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Sun 07-Dec-2008



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
350 Richmond Terrace - e4s002	Sun 07-Dec-2008	00:17:03	0.0212	Ambient
St. Peters Church - e4s001	Sun 07-Dec-2008	08:16:35	0.00437	Ambient